

United States Patent [19]

Munyan

[22] Filed:

[11] **Patent Number:** 5,761,485

Date of Patent: [45]

Jun. 2, 1998

[54] PERSONAL ELECTRONIC BOOK SYSTEM

[76] Inventor: Daniel E. Munyan, 805 Mt. Gretna Rd., Elizabethtown, Pa. 17022

Dec. 1, 1995

[21] Appl. No.: 565,915

G09G 1/02 [52] **U.S. Cl.** **395/500**; 345/901; 326/8; 395/187.01; 455/411

395/145, 2.82, 186, 187.01, 188.01, 200.09,

650; 455/89; 379/98, 368, 58; 348/134; 382/14, 56; 345/192, 127, 130, 901; 434/317; 326/8; 364/286.4, 286.5, 949.81, 260; 365/185.04; 462/903; 463/29; 902/4

[56]

References Cited

U.S. PATENT DOCUMENTS

4,649,499 3/1987 Sutton et al 4,682,161 7/1987 Bugg . 4,763,356 8/1988 Day, Jr. et al	4,545,023 4,649,499 4,682,161	6/1979 10/1985 3/1987 7/1987	Rubincam . Mizzi . Sutton et al Bugg .	379/36
---	-------------------------------------	---------------------------------------	---	--------

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

2149544 6/1985 United Kingdom. WO 87/01481 3/1987 WIPO.

OTHER PUBLICATIONS

Bryant ("The electronic book-a user's wishlist", IEE Colloquium on 'Human-Computer Interface Design for Multimedia Electronic Books', pp. 9/1-9/3, Jan. 1, 1995).

Miyazawa et al. ("An Electronic Book: APTBook". Human-Computer Interaction-Interact '90, Proceedings of the IFIP TC 13 Third International Conference, 1 Jan. 1990, pp. 513-519).

(List continued on next page.)

Primary Examiner-Emanuel Todd Voeltz Assistant Examiner-Phallaka Kik

Attorney, Agent, or Firm-Earl F. Clifford; Clifford & Clifford Law Firm

[57] ABSTRACT

The Personal Electronic Book System invention replaces a standard handheld book with an electronic equivalent. The invention is sized and configured to be book size and to open like a book for use. When opened, the user sees two facing page-like touch-sensitive, display screens with black print on white background. Icons represent the electronically stored material, "artwork, audio clips, books, E-mail, faxes, games, magazines, movies, musical compositions. newspapers, photographs, software, video clips, etc.", which are selected by touching the icon. When a book, magazine, newspaper, or the like is selected, its table of contents is displayed and the user can then read page by page or go directly to a particular page by touching the selection listed in the table of contents. Closing the Personal Electronic Book automatically shuts down the device. Touching a page number before closing the Personal Electronic Book inserts a bookmark so that when the Personal Electronic Book is re-opened, the user is returned to the same page. New printed or multimedia material can be downloaded from an remote server, that is, "a bookstore," and old material, books read, etc., can be deleted to make room for the new material.

21 Claims, 2 Drawing Sheets

